Subscribe (Full Service)   Register (Limited Service, Free)   Login

Search: ⦿ The ACM Digital Library   ◌ The Guide

THE ACM DIGITAL LIBRARY   ⁑ Feedback

(synchroni$) and (1394 or fire$wire or i$link)
Terms used: synchroni$ 1394 fire$wire i$link   Fou

| Sort results by | relevance ▾ | ◈ Save results to a Binder | Refine these results with Ad: |
| Display results | expanded form ▾ | ☐ Open results in a new window | Try this search in The ACM (|

1   A low-complexity multiuser detector for up-link CDMA QPSK mobile radio
     communications
     E. Del Re, R. Fantacci, S. Morosi, G. Vivaldi
     December 1999 Wireless Networks,   Volume 5 Issue 6
     Publisher: Kluwer Academic Publishers
     Full text available: ▨ Pdf (123.82 KB)   Additional Information: full citation, references, cited by, index terms

     Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 11,   Citation Count: 1

2   An architecture for packet-striping protocols
◈   Adiseshu Hari, George Varghese, Guru Parulkar
     November 1999 ACM Transactions on Computer Systems (TOCS),   Volume 17 Issue 4
     Publisher: ACM
     Full text available: ▨ Pdf (220.97 KB)   Additional Information: full citation, abstract, references, index terms,
                                                                            review

     Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 87,   Citation Count: 1

     Link-striping algorithms are often used to overcome transmission bottlenecks in computer
     networks. Traditional striping algorithms suffer from two major disadvantages. They
     provide inadequate load sharing in the presence of variable-length packets, and ...

     Keywords: causal fair queuing, fair queuing, load sharing, multilink PPP, packet striping,
     stripe protocol, striping

3   Simulation using software agents I: linking spatially explicit parallel continuous and
     discrete models
     Boleslaw K. Szymanski, Gilbert Chen
     December 2000 WSC '00: Proceedings of the 32nd conference on Winter simulation
     Publisher: Society for Computer Simulation International
     Full text available: ▨ Pdf (223.71 KB)   Additional Information: full citation, abstract, references

     Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 14,   Citation Count: 0

     This paper advocates the use of mobile agents for linking simulations running on different
     computers. A Mobile Component approach is proposed to enhance reusability of existing
     simulations and to improve efficiency of component based simulations of complex ...

4　Energy Efficiency of the IEEE 802.15.4 Standard in Dense Wireless Microsensor
　　Networks: Modeling and Improvement Perspectives
　　Bruno Bougard, Francky Catthoor, Denis C. Daly, Anantha Chandrakasan, Wim Dehaene
　　March 2005 DATE '05: Proceedings of the conference on Design, Automation and Test
　　　　　　　in Europe - Volume 1, Volume 1
　　Publisher: IEEE Computer Society
　　Full text available: Pdf (429.43 KB)　Additional Information: full citation, abstract, references, cited by, index
　　　　　　　　　　　　　　　　　　　　　　　　　terms

　　Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 106, Citation Count: 6

　　　Wireless microsensor networks, which have been the topic of intensive research in recent
　　　years, are now emerging in industrial applications. An important milestone in this
　　　transition has been the release of the IEEE 802.15.4 standard that specifies
　　　interoperable ...

5　Source-oriented topology aggregation with multiple QoS parameters in hierarchical
　　networks
　　Turgay Korkmaz, Marwan Krunz
　　October 2000 ACM Transactions on Modeling and Computer Simulation (TOMACS),
　　　　　　　　Volume 10 Issue 4
　　Publisher: ACM
　　Full text available: Pdf (290.72 KB)　Additional Information: full citation, abstract, references, cited by, index
　　　　　　　　　　　　　　　　　　　　　　　　　terms, review

　　Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 63, Citation Count: 9

　　　In this paper, we investigate the problem of topology aggregation (TA) for scalable, QoS-
　　　based routing in hierarchical networks. TA is the process of summarizing the topological
　　　information of a subset of network elements. This summary is flooded throughout ...

　　　Keywords: ATM networks, PNNI, QoS-based routing, scalable routing, topology
　　　aggregation

6　Data consistency in a large-scale runtime infrastructure
　　Buquan Liu, Huaimin Wang, Yiping Yao
　　December 2005 WSC '05: Proceedings of the 37th conference on Winter simulation
　　Publisher: Winter Simulation Conference
　　Full text available: Pdf (322.56 KB)　Additional Information: full citation, abstract, references, cited by

　　Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 19, Citation Count: 2

　　　In order to support large-scale distributed simulation, we have developed a RTI called
　　　StarLink+ with particular architecture which is compliant with IEEE 1516. StarLink+ is
　　　composed of a Central RTI server and multiple Local RTI servers. Each Local ...

7　Verification of embedded systems using a petri net based representation
　　Luis Alejandro Cortés, Petru Eles, Zebo Peng
　　September 2000 ISSS '00: Proceedings of the 13th international symposium on System
　　　　　　　　synthesis

Publisher: IEEE Computer Society
Full text available: Pdf (99.66 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 35,   Citation Count: 5

> The ever increasing complexity of embedded systems consisting of hardware and software components poses a challenge in verifying their correctness. New verification methods that overcome the limitations of traditional techniques and, at the same time, ...

8   Hardware/software partitioning of VHDL system specifications
P. Eles, K. Kuchcinski, Z. Peng, A. Doboli
September 1996 EURO-DAC '96/ EURO-VHDL '96: Proceedings of the conference on
                European design automation
Publisher: IEEE Computer Society Press
Full text available: Pdf (63.34 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 19,   Citation Count: 3

9   ACM SIGOPS Operating Systems Review: Volume 12 Issue 4
October 1978 issue   Volume 12 Issue 4
Publisher: ACM
Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

10 Contextual prototyping of user interfaces
Chris Stary
August 2000 DIS '00: Proceedings of the 3rd conference on Designing interactive systems:
             processes, practices, methods, and techniques
Publisher: ACM
Full text available: Pdf (504.96 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                                                  terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 69,   Citation Count: 1

> Contextual development differs from traditional user interface development in several ways: It focuses on the context of usage and the user population rather than on the technical features required for interaction. However, the latter come into play ...
>
> Keywords: contextual design, customization, interactive work design, lifecycle management, model-based development, object-oriented modeling, prototyping, seamless development, tools, usability engineering, user-centered system design

11 RecPlay: a fully integrated practical record/replay system
Michiel Ronsse, Koen De Bosschere
May 1999 ACM Transactions on Computer Systems (TOCS),   Volume 17 Issue 2
Publisher: ACM
Full text available: Pdf (324.00 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                                                                  terms, review

Bibliometrics: Downloads (6 Weeks): 20,   Downloads (12 Months): 152,   Citation Count: 26

This article presents a practical solution for the cyclic debugging of nondeterministic parallel programs. The solution consists of a combination of record/replay with automatic on-the-fly data race detection. This combination enables us to limit the ...

Keywords: binary code modification, multithreaded programming, race detection

12 Stenning's protocol implemented in UDP and verified in Isabelle
Michael Compton
January 2005 CATS '05: Proceedings of the 2005 Australasian symposium on Theory of computing - Volume 41, Volume 41
Publisher: Australian Computer Society, Inc.
Full text available: Pdf (248.21 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 22, Citation Count: 2

This paper is about the mechanical verification of UDP based network programs. It uses the UDP portion of a formal model of the Internet protocols TCP (Transmission Control Protocol) and UDP (User Datagram Protocol). The model includes asynchronous message ...

Keywords: distributed systems, formal verification, theorem proving

13 Migrating to a real-time distributed parallel simulator architecture
Bernardt Duvenhage, Derrick G Kourie
July 2007 SCSC: Proceedings of the 2007 summer computer simulation conference
Publisher: Society for Computer Simulation International
Full text available: Pdf (752.06 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 28, Citation Count: 0

A legacy non-distributed logical time simulator is migrated to a distributed architecture to parallelise execution. The existing Discrete Time System Specification (DTSS) modelling formalism is retained to simplify the reuse of existing models. This ...

Keywords: discrete time step simulation, high real-time frame-rate, parallel simulation, peer-to-peer, publish-subscribe

14 Ontology support for web service processes
C. Pahl, M. Casey
September 2003 ESEC/ FSE-11: Proceedings of the 9th European software engineering conference held jointly with 11th ACM SIGSOFT international symposium on Foundations of software engineering
Publisher: ACM
Full text available: Pdf (200.99 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 172, Citation Count: 3

Web Services are software services that can be advertised by providers and deployed by customers using Web technologies. This concept is currently carried further to address Web service choreography. Choreography refers to the composition of individual ...

Keywords: ontologies, service choreography, web services

15 A quantitative comparison of parallel computation models
Ben H. H. Juurlink, Harry A. G. Wijshoff
August 1998 ACM Transactions on Computer Systems (TOCS),   Volume 16 Issue 3
Publisher: ACM

Full text available: Pdf (1.06 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 75,   Citation Count: 2

In recent years, a large number of parallel computation models have been proposed to replace the PRAM as the parallel computation model presented to the algorithm designer. Although mostly the theoretical justifications for these models are sound, and ...

Keywords: parallel computation models, performance evaluation

16 JMTP: an architecture for exploiting concurrency in embedded Java applications with real-time considerations
Rachid Helaihel, Kunle Olukotun
November 1999 ICCAD '99: Proceedings of the 1999 IEEE/ACM international conference on Computer-aided design
Publisher: IEEE Press
Full text available: Pdf (139.94 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 11,   Citation Count: 0

Using Java in embedded systems is plagued by problems of limited runtime performance and unpredictable runtime behavior. The Java Multi-Threaded Processor (JMTP) provides solutions to these problems. The JMTP architecture is a single chip containing ...

17 Random walk based node sampling in self-organizing networks
Ming Zhong, Kai Shen
July 2006 ACM SIGOPS Operating Systems Review,   Volume 40 Issue 3
Publisher: ACM
Full text available: Pdf (370.33 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 97,   Citation Count: 0

Random walk is a means of network node sampling that requires little index maintenance and can function on almost all connected network topologies. With careful guidance, node samples following a desired probability distribution can be generated with ...

18 Lightweight time synchronization for sensor networks
Jana van Greunen, Jan Rabaey
September 2003 WSNA '03: Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications
Publisher: ACM

Full text available: Pdf (1.38 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 114,   Citation Count: 15

This paper presents lightweight tree-based synchronization (LTS) methods for sensor networks. First, a single-hop, pair-wise synchronization scheme is analyzed. This scheme requires the exchange of only three messages and has Gaussian error properties. ...

Keywords: lightweight, multi-hop, spanning tree, synchronization

19   A lightweight idempotent messaging protocol for faulty networks

Jeremy Brown, J. P. Grossman, Tom Knight

August 2002 SPAA '02: Proceedings of the fourteenth annual ACM symposium on Parallel algorithms and architectures

Publisher: ACM

Full text available: Pdf (283.12 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 18, Citation Count: 1

As parallel machines scale to one million nodes and beyond, it becomes increasingly difficult to build a reliable network that is able to guarantee packet delivery. Eventually large systems will need to employ fault-tolerant messaging protocols that ...

Keywords: block-structured traces, idempotence, source-reliable messaging

20   An approach to schedulability analysis of UML-based real-time systems design

Dongxi Jin, David C Levy

July 2002 WOSP '02: Proceedings of the 3rd international workshop on Software and performance

Publisher: ACM

Full text available: Pdf (150.87 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 53, Citation Count: 0

This paper presents an approach to analyzing the timing and schedulability performance of a system model designed with the Unified Modeling Language (UML). As demand grows for a better way of developing complex real-time (RT) software systems, object-oriented ...

Keywords: real-time schedulability, transaction model, unified modeling language (UML)